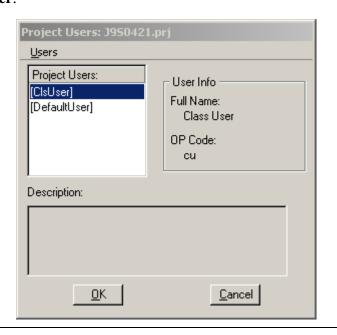
1. Open T:\de-proj\Carter\J0S0421\data\ XS_Route_W.dgn

1. Open the project T:\de-proj\Carter\J9S0421\project\ J9S0421.prj.

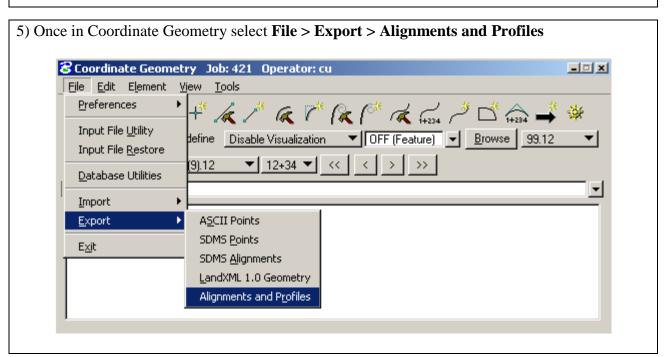


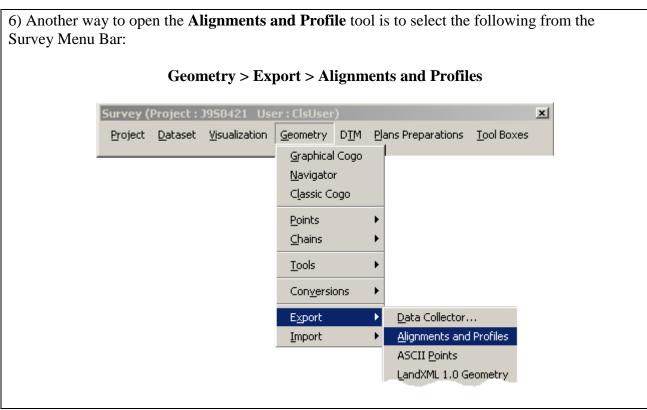
2. Select the user **ClsUser**.



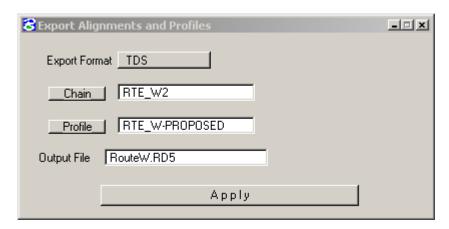
4) Next, we need to create a file (RD5 file for Carlson) that contains the alignment information for Route W. To do this there are two ways to access the tool. One way is to open Coordinate Geometry by selecting the following from the Applications pull down:

Applications > GeoPak Road > Geometry > Coordinate Geometry





7) In the Export Dialog set the following fields: Begin Point, Export Format, Chain, Profile, and the name of the Output file.



Export Format = TDS will work with the current Carlson version.

Chain = The Baseline of the Cross Sections that you're wanting to export.

Profile = Proposed profile that is associated to the Chain/Profile. (**Optional**)

Output Format = Name of the chain file that you want to create. This will be the file that will be imported into your calculator.

8) When the "Apply" button is selected GeoPak will show you the following Dialog:



10) Below is what the RouteW.RD5 looks like in UltraEdit (or any other Text editor).

```
HL,348.40206,90.622
HL, 28.47424, 61.421
                                           HL,349.04121,56.112
HL, 31.10489, 87.771
                                           HL, 348.30398, 63.748
                                           HL, 349.39216, 55.804
HL, 30.09330, 94.466
HL, 30.45567, 779.623
                                           HL, 348.30209, 64.289
                                           HL,349.21097,112.701
HL, 30.48239, 176.395
HL, 30.20584, 138.165
                                           HL,349.06284,64.716
HL, 30.15459, 93.243
                                           HL, 349.18380, 57.062
HL,30.32203,206.276
                                           HL, 349.11514, 178.620
HL, 30.06296, 94.329
                                           HC,349.06281,954.930,867.648,R
HL, 30.22244, 92.375
                                           HL, -1.00000, 1838.710
HL, 30.17201, 96.619
                                           HC,-1.00000,1909.859,983.333,L
HL, 30.49258, 77.451
                                           HL,-1.00000,79.659
HL,30.34418,140.376
                                           HL,-1.00000,2159.794
                                           HL, 31.02187, 137.020
HL, 33.05493, 115.599
                                           VG,50.000,-3.680
HL, 34.43215, 115.599
                                           VG,50.000,-3.480
                                           VG,50.000,-2.700
HL, 37.12381, 78.136
HL, 37.43489, 96.472
                                           VG,50.000,-1.340
HL, 38.08392, 86.852
                                           VG,50.000,0.520
HL, 38.35489, 97.434
                                           VG,50.000,0.560
HL, 38.31362, 94.645
                                           VG, 65.410, -0.061
HL, 38.51206, 89.809
                                           VG, 64.543, -0.122
HL, 38.19255, 68.485
                                           VC, 350.001, -0.122, 3.590
HL,38.52467,140.463
                                           VG,307.776,3.590
HL, 39.30188, 95.045
                                           VC, 780.000, 3.590, -2.333
HL, 38.53259, 108.236
                                           VG,86.550,-2.333
                                           VC, 420.000, -2.333, 2.183
HL, 38.27561, 61.537
HL, 38.05528, 38.667
                                           VG,244.460,2.183
                                           VC, 1000.000, 2.183, -6.102
HL, -1.00000, 38.667
HL, 36.13565, 52.849
                                           VG,8.860,-6.102
HL, 33.16237, 53.159
                                           VG, 56.330, -5.059
HL, 30.33370, 34.833
                                           VG, 32.670, -5.448
HL, 27.48385, 47.680
                                           VG,31.280,-4.124
HL, 26.20358, 42.624
                                           VG, 31.270, -4.125
HL, 21.59177, 47.387
                                           VG, 34.520, -4.635
HL, 19.53373, 35.362
                                           VG, 38.690, -3.231
HL, 16.25250, 57.469
                                           VG,50.790,-3.170
                                           VG,40.200,-2.634
HL, 14.27558, 47.075
HL, 11.09319, 44.389
                                           VG, 58.140, -2.634
HL, 8.44040, 35.244
                                           VG, 48.510, -2.845
HL,5.38129,48.370
                                           VG,50.000,-2.840
HL, 1.05178, 66.201
                                           VG,50.000,-3.700
HL, 359.48223, 35.033
                                           VG,50.000,-4.060
HL, 356.17362, 56.857
                                           VG,850.002,-0.026
HL, 353.26545, 78.676
                                           HL, 350.53468, 115.094
                                           HL,349.36568,91.283
HL, 349.15412, 74.427
HL,348.30017,51.183
HL, 349.17269, 57.763
```

270 Degree

North

180 Degree

O Degree

Clockwise

90 Degree

Angles are measure from True North and then go

10 Cont.) The Alignment and Profile portion of RD5 file is formatted with the following nomenclature:

HL,31.10489,87.771

= Horizontal Line 31.10489 = Line Direction 87.771 = Line Distance.

HC,349.06281,954.930,867.648,R

HC = Horizontal Curve 349.06281 = Direction Back954.930 = Curve Radius 867.648 = Curve Length

= Curve turning to the right

HS, 97.01374, 1000.000, 500.000, L, T

HS = Horizontal Spiral 97.01374 = Direction Back

1000.000 = Radius

500.000 = Spiral Length

= Spiral turning to the Left
= Spiral Back (after tangent)

or

= Spiral Ahead (after Curve)

VG,50.000,-3.680

VG = Vertical Grade

VG = Vertical 50.000 = Distance -3.680 = Grade

VC,350.001,-0.122,3.590

VC = Vertical Curve 350.001 = Length of Curve-0.122 = Back Grade

3.590 = Forward Grade